

AMENDMENT  
Serial No. 09/343,758

YOR9-1999-0183

AMENDMENTS TO THE CLAIMS

The below listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method of transferring data across a computer network, said computer network including a plurality of computers, a database stored on one of said plurality of computers, said method comprising the steps of:
  - 4 requesting transfer of data stored on a remote computer system;
  - 5 identifying at least one object included in said requested data as being associated with a generic object, wherein each said at least one object is a species object of its associated said generic object; and
  - 8 substituting a corresponding said generic object for each said associated at least one object, [[said]] substituted said corresponding generic objects being transferred with said data before associated objects.
- 1 2. (original) A method as in claim 1 wherein said stored data includes image and sound data.
- 1 3. (previously presented) A method as in claim 2, wherein image data is requested by a user for display on a web browser, each substituted said generic object being in a compressed web browser image, said method further comprising:
  - 4 displaying said compressed web browser image.
- 1 4. (original) A method as in claim 3, wherein the remote computer system identifies generic objects.

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1 5. (previously presented) A method as in claim 4, wherein while the compressed web  
2 browser image is being displayed, the remote computer system is transferring generic  
3 object codes associated with related images.

6. (Canceled)

1 7. (previously presented) A method as in claim 24 wherein a requested object is  
2 transferred while a corresponding generic object is being displayed and further  
3 comprising:  
4 replacing and displaying each said corresponding generic object with each said  
5 requested object when said requested object is received.

1 8. (original) A method as in claim 7, wherein the data transfer constraints include a peak  
2 net traffic constraint, a client quick mode constraint, a server quick mode constraint and  
3 an importance level.

1 9. (original) A method as in claim 8, wherein when said importance level is high, data is  
2 transferred from said database and the web browser image is displayed normally.

1 10. (original) A method as in claim 8, wherein when peak net traffic is below said peak  
2 net traffic constraint, data is transferred from said database and the web browser image is  
3 displayed normally.

1 11. (original) A method as in claim 8, wherein when said client quick mode constraint is  
2 not selected, data is transferred from said database and the web browser image is  
3 displayed normally.

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1 12. (original) A method as in claim 8, wherein when said server quick mode constraint is  
2 not selected, data is transferred from said database and the web browser image is  
3 displayed normally.

1 13. (original) A method as in claim 5, wherein while the web browser image is being  
2 displayed, the remote computer system is further transferring additional generic objects  
3 associated with said related images.

1 14. (currently amended) An interface device for connecting to and retrieving data from a  
2 remote computer system, said interface device comprising:

3 means for setting data transfer constraints;  
4 means for requesting data from a remote computer system;  
5 means for storing a plurality of generic objects, each stored generic object  
6 corresponding to an original object in data requested from said remote computer system,  
7 wherein each said corresponding original object is a species object of a corresponding  
8 said stored generic object;

9 means for substituting each stored said generic objects for said corresponding  
10 object; and

11 means for outputting said requested data, said output data selectively including  
12 said generic objects or corresponding original objects responsive to said data transfer  
13 constraints.

1 15. (original) The interface device as in claim 14, wherein the outputting means is a video  
2 display.

1 16. (original) The interface device as in claim 14, wherein the interface device is a  
2 speaker.

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1 17. (currently amended) A method of compressing digital images, comprising the steps  
2 of:  
3       a) identifying objects in a digital image;  
4       b) identifying names of identified objects;  
5       c) identifying a position of identified objects;  
6       d) identifying a position relative to one of said identified objects in the digital  
7 image;  
8       e) identifying characteristics of the identified objects;  
9       f) substituting for identified objects in said digital image generic object  
10 names, position data and characteristics to form a modified digital image, wherein each  
11 of said identified objects is a species object of substituted said generic objects; and,  
12       g) sending the modified digital image to a client system for display.

1 18. (currently amended) A method of restoring a compressed image comprising the steps  
2 of:  
3       a) identifying generic objects in received image data;  
4       b) identifying corresponding objects in subsequently received data, wherein  
5 each of said corresponding objects is a species object of an identified one of said generic  
6 objects;  
7       c) substituting said corresponding objects for said identified generic objects  
8 in said received image data to form an uncompressed image; and  
9       d) displaying said uncompressed image.

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1       19. (currently amended) A computer program product for transferring data across a  
2       computer network including a plurality of computers, a database stored on one of said  
3       plurality of computers, said computer program product comprising a computer usable  
4       medium having computer readable program code thereon, said computer readable  
5       program code comprising:

6               computer readable program code means for setting data transfer constraints;  
7               computer readable program code means for requesting transfer of data stored on a  
8       remote computer system;

9               computer readable program code means for identifying at least one object  
10      included in said requested data as being associated with a generic object, wherein each  
11      said at least one object is a species object of its associated said generic object; and

12               computer readable program code means for substituting a corresponding generic  
13      object for each said at least one object responsive to said data transfer constraints.

1       20. (original) A computer program product as in claim 19, wherein image data is  
2       requested by a user for display on a web browser, said generic object being substituted in  
3       a web browser image, said computer program product further comprising:

4               computer readable program code including a database with a plurality of generic  
5       objects.

1       21. (original) A computer program product as in claim 20, further comprising:

2               computer readable program code for transferring additional generic objects  
3       associated with related images while the web browser image is being displayed.

22. (Canceled)

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1 23. (previously presented) A computer program product as in claim 20, further  
2 comprising:

3 computer readable program code for transferring a requested object while said  
4 corresponding generic object is being displayed and when said requested object is  
5 received replacing said corresponding generic object with each said requested object and  
6 displaying said each requested object.

1 24. (currently amended) A method of transferring data across a computer network, said  
2 computer network including a plurality of computers, a database stored on one of said  
3 plurality of computers, said method comprising the steps of:

4 setting data transfer constraints;

5 requesting transfer of data, including image and sound data, stored on a remote  
6 computer system;

7 identifying at least one object included in said requested data as being associated  
8 with a generic object, wherein each said at least one object is a species object of its  
9 associated said generic object;

10 substituting a corresponding said generic object for each said at least one object in  
11 a web browser image responsive to said data transfer constraints;

12 transferring generic object codes associated with related images from said remote  
13 computer system; and,

14 displaying said web browser image while transferring, wherein when related  
15 images are displayed, generic objects associated with said transferred generic object  
16 codes are substituted in said displayed related images.

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1       25. (currently amended) A computer program product for transferring data across a  
2       computer network including a plurality of computers, a database stored on one of said  
3       plurality of computers, said computer program product comprising a computer usable  
4       medium having computer readable program code thereon, said computer readable  
5       program code comprising:

6               computer readable program code means for setting data transfer constraints;  
7               computer readable program code means for requesting transfer of data stored on a  
8       remote computer system;

9               computer readable program code means for identifying at least one object  
10       included in said requested data as being associated with a generic object, wherein each  
11       said at least one object is a species object of its associated said generic object;

12               computer readable program code means for substituting generic objects in a web  
13       browser image for each of said at least one object responsive to said data transfer  
14       constraints;

15               computer readable program code for transferring additional generic objects  
16       associated with related images while the web browser image is being displayed; and

17               computer readable program code for substituting said additional objects for said  
18       related object when a related image is displayed.

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26 - 32 (canceled)